C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.42.c Switch Yard Crash Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.42		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
_____	_____	_____	_____
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Approved: _____*Signature on File*_____ _____
              Collider-Accelerator Department Chairman   Date

V. Castillo

4.120.42.c Switch Yard Crash Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____   **Checksum: _____**

Division B Software Filename and Checksum: Title:_____   **Checksum: _____**

<u>**Initial testing complete:**</u>

Test Team Leader's Name (Print): _____   **Life Number: _____**

Test Team Leader's Name (Sign): _____   **Date: ____/_____/_____**

<u>**Acceptance test procedure complete (following repairs and retesting if required):**</u>

Test Team Leader's Name (Print): _____   **Life umber:_____**

Test Team Leader's Name (Sign): _____   **Date: _____/_____/_____**

<u>**Test results reviewed by:**</u>

Safety Section Head's Name (Print):_____   **Life Number: _____**

Safety Section Head's Name (Sign):_____   **Date: _____/_____/_____**

<u>**Test results accepted by Radiation Safety Committee:**</u>

RSC Member's Name (Print):_____   **Life Number: _____**

RSC Member's Name (Sign):_____   **Date: ____/_____/_____**

1.1   **Test of Crash Buttons (CB) System**

    PRESS   Crash Button to **activate** crash

☐   **VERIFY**   **MCR** sees on **Opto monitor** primary crash   **INTERLOCK**
☐   **VERIFY**   **MCR** sees on **Opto monitor** redundant crash   **INTERLOCK**

☐   **VERIFY**   MCR **attempt** to reset crash hardware at **Panel Y**   **FAIL**

    RETRACT   Crash Button to start **RESET**

☐   **VERIFY**   MCR **attempt** to reset crash hardware at **Panel Y**   **SUCCESSFUL**

☐   **VERIFY**   **MCR** sees on **Opto monitor** primary crash   **OK**
☐   **VERIFY**   **MCR** sees on **Opto monitor** redundant crash   **OK**

    PRESS   **Hit Return** for software **reset** at **Opto monitor**

☐   **VERIFY**   **MCR** sees on **Opto monitor** crash   **OK**

    FOLLOW   **Table 1** below

Crash Button Location	Press Crash Button	Verify MCR sees at locn crash interlock		Reset Hware at MCR FAIL	Retract Crash Button	Reset Hware at MCR OK	Verify MCR sees at locn crash button ok		Hit Return to Reset Sware at MCR	Verify MCR sees at locn crash ok
		Prim	Redun				Primary	Redundant		
Switch Yard CB 1		☐	☐				☐	☐		☐
" CB2		☐	☐				☐	☐		☐
" CB3		☐	☐				☐	☐		☐
" CB4		☐	☐				☐	☐		☐
" CB5		☐	☐				☐	☐		☐
" CB6		☐	☐				☐	☐		☐
" CB7		☐	☐				☐	☐		☐
D6 Separator 1 CB8		☐	☐				☐	☐		☐
D6 Separator 2 CB9		☐	☐				☐	☐		☐
A Target CB1		☐	☐				☐	☐		☐
" CB2		☐	☐				☐	☐		☐
" CB3		☐	☐				☐	☐		☐
" CB4		☐	☐				☐	☐		☐

Table 1 – Test of Crash Buttons

☐   **Check for acceptance of Test of Crash Buttons System**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: _____/_____/_____

TTL: Sign for completion of final testing: _____

Date: _____/_____/_____